

**Long Range Discrimination Radar Operations** 

**Online Open House** 



## Missile Defense Evolving Threat Environment

Adversaries are fielding diverse and expansive ranges of modern offensive missile systems

- Developing new missiles & improving existing systems
  - Precision strike
  - Penetration aids (e.g. decoys, jamming devices)
- Capable of maneuvering in midcourse or terminal phase
  - Maneuvering Reentry Vehicle (MaRV)
  - Multiple Independent Reentry Vehicle (MIRV)
  - Hypersonic Glide Vehicle (HGV)
  - Long Range Cruise Missiles (Defense of Homeland)



North Korea Hwasong-15 ICBM



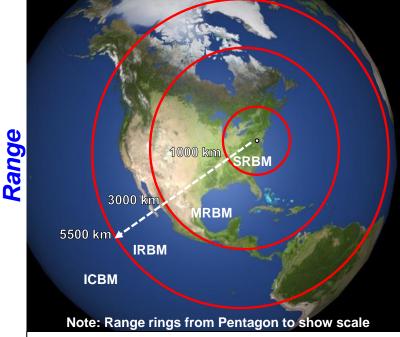
China Dong Feng (DF-26) IRBM



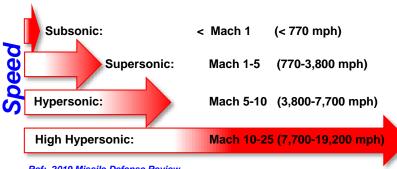
Emad-1 MRBM with MaRV



Russia
Concept Hypersonic Glide Vehicle



SRBM: Short Range Ballistic Missile (300-1000 km :: 621 mi)
MRBM: Medium Range Ballistic Missile (1000-3000 km :: 1864 mi)
IRBM: Intermediate Range Ballistic Missile (3000-5500 km :: 3418 mi)
ICBM: Intercontinental Ballistic Missile (5500+ km :: 3418+ mi)



Ref: 2019 Missile Defense Review

Approved for Public Release 20-MDA-10540 (30 Jul 20)



## Missile Defense Agency Mission

To develop and deploy a layered Missile Defense System to defend the United States, its deployed forces, allies, and friends from missile attacks in all phases of flight



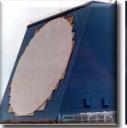


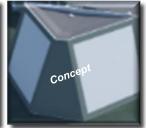


















Missile Defense Capability
Globally Deployed



# Missile Defense Agency Priorities

In Support of the National Defense Strategy



### **Support the Warfighter**

Augment Service Readiness, Logistics Support, Training, and Lifecycle Sustainment





# **Develop and Deliver the Missile Defense System**

Focus on Increasing Lethality, Building Out Missile Defense Force Structure, and Deploying Credible Deterrence





#### **Outpace the Evolving Threat**

Develop Architectures that Challenge Adversary Capabilities, Quickly Mature Promising Technologies, Deliver with Speed



"A robust and credible layered missile defense system paired with our conventional and nuclear force capabilities provides the ability to deter strategic attacks, deny benefits, and impose costs against any potential adversary."

-- Admiral Charles A. Richard, U.S. Strategic Command



# Today's Layered Active Missile Defense System

C2BMC Command and Control, Battle Management and Communications
NMCC USSTRATCOM USNORTHCOM USINDOPACOM USEUCOM USCENTCOM USSPACECOM



Sensors



Satellite Surveillance BMDS OPIR Architecture



Warning Radars



Forward-Based Radars



Aegis BMD SPY Radars



Discriminating Radars

